

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Schisandra chinensis*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-DEOXYSCHIZANDRIN	Fruit	--	548.1		
0	(+)-GOMISIN-K-2	Fruit	--	7		
0	(-)-GOMISIN-K-1	Fruit	--	63		
0	(DL)-GAMMA-SCHIZANDRIN	Fruit	--	--		
0	6-O-BENZOYLGOMISIN-I	Fruit	--	3.3		
0	ALPHA-CHAMIGRENE	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
5	ALUMINUM	Fruit	174	174	-0.1729010421284495	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ANGELOYLGOMISIN-H	Fruit	65	310		
0	ANGELOYLGOMISIN-O	Fruit	--	10.1		
0	ANGELOYLGOMISIN-P	Fruit	--	8		
0	ANGELOYLGOMISIN-Q	Fruit	--	47		
0	ANGELOYLISOGOMISIN-O	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	ARGOLIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ARSENIC	Fruit	0.18	0.18	-0.30624870908297014	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
112	ASCORBIC-ACID	Fruit	153	1022	-0.22094411890427487	
0	ASH	Fruit	6900	46000	-0.2761417753531496	
0	BENZOYLGOMISIN	Fruit	--	--		
0	BENZOYLGOMISIN-H	Fruit	20	30		
0	BENZOYLISOGOMISIN-O	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	BETA-2-BISABOLENE	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
53	BETA-CAROTENE	Fruit	9	61	-0.03288872818135363	
0	BETA-CHAMIGRENE	Essential Oil	--	--		
0	BETA-CHAMIGRENE	Fruit	--	--		
0	BETA-CHAMIGRENOL	Essential Oil	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
47	BETA-SITOSTEROL	Fruit	--	--		
28	CALCIUM	Fruit	864	5760	0.439301659101438	
0	CARBOHYDRATES	Fruit	709000	709000	-0.39508329928980507	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOXYLIC-ACID	Fruit	--	--		Lawrence Review of Natural Products, Jun-88.
0	CHAMIGRENAL	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
24	CHROMIUM	Fruit	0.3	1.8	-0.25480859243409615	
53	CITRAL	Essential Oil	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
23	CITRIC-ACID	Fruit	5000	33333	-0.10601794590618502	
23	CITRIC-ACID	Plant	--	--		
2	COBALT	Fruit	2	10.4	0.7239010798038872	
12	COPPER	Fruit	5	11	-0.14156813908561597	
0	D-ALPHA-YLANGENE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	DEANGELOYLGOMISIN-B	Fruit	--	--		
0	DEOXYGOMISIN-A	Fruit	--	--		
1	DEOXYGOMOSIN-A	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	DEOXYSCHIZANDRIN	Plant	--	--		
0	DEOXYSCHIZANDRIN	Fruit	--	10		
0	DIMETHYLGOMISIN-J	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Fruit	10000	30000	-0.23685155415738732	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	EO	Bark	--	--		
0	EO	Leaf	--	--		
0	EO	Branches	--	--		
0	EPIGOMISIN-O	Fruit	--	10.2		
0	EPSILON-SCHIZANDRIN	Seed	--	--		
0	FAT	Fruit	17100	114000	0.22947074040299184	
15	FIBER	Fruit	76000	76000	-0.6197539035878189	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(CRUDE)	Fruit	--	76000	-0.8423176766035232	
0	FIBER(DIETARY)	Fruit	--	320000	-0.9715942860730087	
3	FLUORIDE	Fruit	--	2.1	0.26994330851757437	
7	FUMARIC-ACID	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GAMMA-SCHIZANDRIN	Plant	--	--		
0	GAMMA-SCHIZANDRIN	Fruit	--	120		
0	GOGOMISIN-D	Fruit	--	--		
0	GOMISIN-A	Fruit	10	1900		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GOMISIN-A	Tissue Culture	--	40		
0	GOMISIN-B	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMISIN-C	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMISIN-D	Fruit	157	160		
2	GOMISIN-E	Fruit	--	67		
0	GOMISIN-F	Fruit	--	40		
1	GOMISIN-G	Fruit	--	160		
1	GOMISIN-H	Fruit	--	10		
1	GOMISIN-J	Fruit	230	380		
0	GOMISIN-K-1	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMISIN-K-2	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMISIN-K-3	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMISIN-L-1	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GOMISIN-L-1-METHYL-ETHER	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	GOMISIN-L-2	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMISIN-M-1	Fruit	--	12		
0	GOMISIN-M-2	Fruit	--	7		
1	GOMISIN-N	Fruit	59	3100		
0	GOMISIN-O	Fruit	--	23.1		
0	GOMISIN-R	Fruit	--	10.1		
0	GOMISIN-S	Fruit	--	10.1		
0	GOMISIN-T	Fruit	--	2.4		
6	IRON	Fruit	5	35	-0.38865261596387907	
0	ISOSCHISANDROLIC-ACID	Fruit	--	--		
1	ISOSCHIZANDRIN	Fruit	--	12		
0	KAEMPFEROL-3-O-BETA-RUTINOSIDE	Fruit	--	0.8		
0	KILOCALORIES	Fruit	4020	4020	0.5459394254271432	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	L-MALIC-ACID	Fruit	--	140		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LIGNAN	Hull Husk	7000	57000		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LIGNAN	Petiole	7000	57000		
0	LIGNAN	Seed	--	80000		
10	LIGNANS	Seed	80000	190000	1	
10	LIGNANS	Stem	--	100000		Lawrence Review of Natural Products, Jun-88.
10	LIGNANS	Fruit	3000	20000		
0	LINOLENIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	M-SCHIZANDRIN	Seed	--	--		
65	MAGNESIUM	Fruit	414	2760	0.2918484602548554	
15	MALIC-ACID	Plant	--	--		
15	MALIC-ACID	Fruit	5000	33333	1.2183902770726902	
14	MANGANESE	Fruit	0.6	3.7	-0.37914017261936706	
0	MESO-DIHYDROGUAIARETIC-ACID	Fruit	--	27		
39	NIACIN	Fruit	--	--		
0	OCTADECANOIC-ACID-2-3-DIHYDROXY-PROPYL-ESTER	Fruit	--	--		
0	P-SCHIZANDRIN	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
2	PALMITOLEIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	PECTINS	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	PEONIDIN-3-O-BETA-D-GLUCOSIDE	Fruit	--	--		
0	PHOSPHOLIPIDS	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	PHOSPHORUS	Fruit	639	4260	0.31710596335866637	
14	POTASSIUM	Fruit	1545	10300	-0.673859997706773	
0	PREGOMISIN	Fruit	116	120		
0	PROTEIN	Fruit	19650	131000	0.2882364210274472	
43	PROTOCATECHUIC-ACID	Plant	--	--		
43	PROTOCATECHUIC-ACID	Fruit	--	58.3	-1.0000000000000002	
0	PSEUDO-GAMMA-SCHIZANDRIN	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	RESINS	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	RIBOFLAVIN	Fruit	0.1	0.5	-0.9657415104259668	
7	SCHISANDRIN	Fruit	--	--		
7	SCHISANDRIN	Stem	--	--		
7	SCHISANDRIN	Seed	--	--		
0	SCHISANDROL	Seed	--	--		
0	SCHISANDROL	Stem	--	--		
0	SCHISANDROLIC-ACID	Fruit	--	--		
1	SCHISANHENOL	Fruit	--	--		
1	SCHISANHENOL	Seed	--	--		
0	SCHISANTHENOL	Fruit	--	66		
1	SCHISANTHERIN-A	Fruit	--	--		
0	SCHISANTHERIN-B	Fruit	--	--		
0	SCHISANTHERIN-D	Fruit	--	13		
0	SCHIZANDER-A	Fruit	--	--		
0	SCHIZANDRER-A	Fruit	--	--		
0	SCHIZANDRER-B	Fruit	--	--		
2	SCHIZANDRIN	Fruit	65	2600		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	SCHIZANDRIN	Plant	--	--		
2	SCHIZANDRIN	Seed	--	--		
0	SCHIZANDRIN-A	Fruit	--	--		
0	SCHIZANDRIN-A	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SCHIZANDRIN-B	Fruit	--	--		
0	SCHIZANDRIN-C	Fruit	--	--		
0	SCHIZANDROL	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	SCHIZANDROL-A	Fruit	--	--		
1	SCHIZANDROL-B	Seed	--	--		
1	SCHIZANDROL-B	Fruit	--	--		
0	SCHIZANTHERIN-A	Fruit	--	40		
0	SCHIZANTHERIN-A	Seed	--	--		
0	SCHIZANTHERIN-A	Plant	--	--		
0	SCHIZANTHERIN-B	Fruit	--	220		
0	SCHIZANTHERIN-B	Plant	--	--		
0	SCHIZANTHERIN-B	Seed	--	--		
60	SELENIUM	Fruit	0.1	0.7	-0.21260376123491576	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SESQUICARENE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
4	SILICON	Fruit	0.5	3.4	-0.5973964111311393	
1	SODIUM	Fruit	15	97	-0.17475238539550708	
7	SORBIC-ACID	Fruit	--	--		
8	STEARIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	STEROIDS	Seed	1000	1000	-1	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SUGARS	Fruit	18000	120000	-0.388868598447453	
9	SYRINGIN	Leaf	--	--		
35	TANNIN	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	TARTARIC-ACID	Fruit	5000	33333	-0.06443554315310286	
6	TARTARIC-ACID	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
31	THIAMIN	Fruit	--	--	-0.6826150574042895	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THIAMINE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	THYMOQUINOL-2-O-BETA-D-GLUCOPYRANOSIDE	Fruit	--	3.3		
0	THYMOQUINOL-5-O-BETA-D-GLUCOPYRANOSIDE	Fruit	--	3.1		
0	TIGLOYLGOMISIN-G	Fruit	--	--		
0	TIGLOYLGOMISIN-H	Fruit	10	140		
0	TIGLOYLGOMISIN-P	Fruit	--	13		
4	TIN	Fruit	940	940	3.3083276783160853	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	TOCOPHEROLS	Seed	12	12	-0.7232633947246411	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	WATER	Fruit	913000	913000	0.6192740288723317	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	WAX	Seed	5000	5000	-1.176964698552741	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	WUEIZISU-C	Plant	--	--		
0	WUWEICHUN-A	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	WUWEICHUN-B	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	WUWEIZI-ESTER	Seed	--	--		
0	WUWEIZI-ESTER-A	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	WUWEIZI-ESTER-B	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	WUWEIZICHUN-B	Plant	--	--		
1	WUWEIZICHUN-B	Fruit	--	--		
1	WUWEIZICHUN-B	Seed	--	--		
0	WUWEIZISU-A	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	WUWEIZISU-A	Seed	--	--		
0	WUWEIZISU-B	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	WUWEIZISU-B	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	WUWEIZISU-C	Seed	--	--		
1	WUWEIZISU-C	Fruit	10	720		
77	ZINC	Fruit	--	--		